



expanded  
function  
smart  
terminal

**FEATURES:** Function Keys • Memory Lock Facility • Split Screen Operation • Half Intensity • Independent Auxiliary I/O Port • Single Key Cursor Control • Visual Attribute Control

The DM1A is a microprocessor based terminal incorporating all features found in the DM10 plus those additionally listed above. Typical applications are both stand alone and network based which requires utilization of a limited number of function keys, half intensity and cursor control features.

The expanded conversational DM1A allows for bidirectional communications to an auxiliary peripheral device.



**MODEL  
DM1S**

## **OEM CUSTOMIZATION**

The DM1S is a DM1A with socket provision for OEM applications.

The DM 'S' Series offers as standard both synchronous and asynchronous I/O capability.

For those applications similar to the DM1A that require special protocols (firmware) the DM1S is your answer. You may develop your own firmware or have it developed by Beehive.

## **SPECIFICATIONS**

### **DISPLAY FORMAT**

24 lines x 80 characters

### **STATUS LINE**

25th line of display

### **CRT SIZE**

12" measured diagonally

### **CHARACTER SIZE**

Approximately 0.2" high x 0.1" wide

### **CHARACTER TYPE (Alphanumeric)**

128 displayable ASCII characters, each formed within an 8 x 8 dot matrix. Descenders on lower case characters.

### **CHARACTER TYPE (Line Drawing)**

Eleven graphic symbols for drawing forms and contiguous lines

### **CHARACTER GENERATION**

MOS ROM

### **REFRESH RATE**

50 Hz - 60 Hz (Programmable)

### **REFRESH MEMORY**

MOS RAM

### **CHARACTER DISPLAY**

Light characters on a dark background or dark characters on a light background (switch selectable).

### **VISUAL ATTRIBUTES**

Normal, Reverse, Blink, Underline, Half Intensity, and Security Fields

### **TABULATION**

Fixed tab stops occur each eight character positions

### **CURSOR**

Non-destructive blinking block

### **MEMORY LOCK**

The display area above the line the cursor is currently on is frozen on the screen.

### **LINE LOCK**

The host CPU may selectively designate reserved display lines.

### **MEMORY ADDRESS POINTER**

An invisible cursor that is used to read and write to and from the display memory independent of visible screen functions.

### **CURSOR CONTROL**

Up, down, left, right, home, carriage return, line feed

### **CURSOR SENSE**

Cursor position is transmitted to the host upon request

### **CURSOR ADDRESSING**

Direct X-Y cursor positioning by line and column

### **MEMORY POINTER DATA SENSE**

ASCII value of the character located at the memory address pointer

### **READ TERMINAL STATUS**

A 27 byte status message reflecting switch setting, diagnostic results, communication protocol, etc.

### **SCROLL**

When display memory is filled the bottom line data will scroll upward. Top down overwrite (roll) is switch selectable.

### **COMMUNICATIONS INTERFACE**

Serial RS232C/Current Loop

### **TRANSMISSION RATE**

Switch selectable 110 to 19.2K baud (EIA)

Switch selectable 110 to 9,600 baud (CL)

### **PARITY**

Switch selectable, odd, even, mark or space

### **COMMUNICATION MODE**

Full duplex

Half duplex

Echoplex

Asynchronous only

### **OPERATIONAL MODES**

Conversational: Character by character transmission

Local: Off-line display data entry

Line Monitor: Displays all ESC codes and control code sequences

### **TERMINATION CHARACTER**

Switch selectable CR, EOT, CR LF, ETX

### **TIME OF DAY CLOCK**

A clock that may be set by the host CPU or operator

### **CPU MESSAGE DEPOSIT**

An 80 character message buffer holds host CPU data and prints "MSG WAIT" on status line for operator recovery

### **ERROR INDICATORS**

Status line messages reflecting self test

### **BELL**

Audible alarm upon receipt of control G or as the cursor passes through the 72 character location when data is being entered from the keyboard. The continuous alarm on/off feature is included

### **KEYBOARD**

A 61 key ANSI compatible TTY/Typewriter compatible layout featuring auto repeat, two key rollover, alpha lock and lower case inhibit. Also includes a 14 key numeric pad with associated field termination control keys.

The 12 programmed function keys and cursor movement keys are included

### **SELF DIAGNOSTICS**

Either through host CPU control, operator initiated, or upon power up

### **INPUT VOLTAGE AND FREQUENCY**

115 VAC±10% 60 Hz

### **ENVIRONMENTAL SPECIFICATION**

Altitude: Sea level to 10,000 feet

Temperature: 0°C to 40°C

Humidity: 10 to 80% (Non-condensing)

### **TERMINAL SIZE**

18" W x 13" H x 22.5" D

### **TERMINAL WEIGHT**

43 lbs. (Approximate)

### **TERMINAL FINISH** Textured

### **OPTIONS**

• 230 VAC±10% 50 Hz

• Composite Video

SPECIFICATIONS SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTICE

### **SALES OFFICES**

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